

**Electrical: Biomedical Signals and Systems (Option G)**

**September 2018** (students who entered first year in September 2016)

**Year 2:**

**Term A**

AM 2270a	Applied Mathematics for Engineering II
CS 1037a	Computer Science Fundamentals II
ECE 2205a	Electric Circuits I
ECE 2240a	Electrical Laboratory
ECE 2277a	Digital Logic Systems
Writing 2130f	Building Better (Communication) Bridges: Rhetoric & Professional Communications for Engineers

**Term B**

AM 2276b	Applied Mathematics for Elec. & Mech Eng III
ECE 2231b	Introduction to Electronics
ECE 2233b	Circuits and Systems
ECE 2236b	Magnetic Circuits and Transmission Lines
ECE 2241b	Electrical Laboratory II
MME 2234b	Heat Transfer and Dynamics

**Year 3:**

**Term A**

AM 3415a	Applied Mathematics for Electrical Engineering II
ECE 3330a	Control Systems
ECE 3332a	Electric Machines
ECE 3337a	Electronic Circuits
MEDBIO 3330f	Human and Animal Biomechanics
SS 2141a	Applied Probability and Statistics

**Term B**

ECE 3331b	Introduction to Signal Processing
ECE 3336b	Electromagnetic Theory
ECE 3370b	Communication Electronics I
ECE 3375b	Microprocessors and Microcomputers
ECE 3399b	Principles and Practices of Design of Electronic Systems
MEDBIO 3507g	Analysis of Oxygen Transport in Biological Systems

**Year 4:**

**Term A**

ECE 4416	Electrical/Computer Engineering Project
ECE 4429a	Advanced Digital Signal Processing
ECE 4437a	Communications Theory
ECE 4445a	Introduction to Digital Image Processing
Physiol 2130	Human Physiology
0.5 non-technical elective taken from the approved list	

**Term B**

ECE 4416	Electrical/Computer Engineering Project
ECE 4438b	Advanced Image Processing and Analysis
ECE 4455b	Biomedical Systems Analysis
ES 4498g	Engineering Ethics, Sustainable Development and the Law
Physiol 2130	Human Physiology
0.5 non-technical elective taken from the approved list	

**NOTES:**

Non-technical electives:

Please choose 1.0 credits (one 1.0 credit or two 0.5 credit) courses from the 1000 level and one 0.5 credit from the 2000+ level.